Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims</u>:

- 1. (Currently amended) A method of identifying a cell colony which expresses a soluble variant of a target protein, which method comprises:
- (a) subjecting said cell colony to conditions which are capable of causing lysis thereof;
- (b) filtering the lysate of step (a) through a filter having pores which allow only soluble proteins to pass through the filter; and
- (c) detecting target protein which has passed through the filter, wherein the target <u>protein</u> is not detected on the basis of its own enzymatic activity.
- (Original) The method of claim 1 wherein the lysis of step(a) is native lysis.
- 3. (Original) The method of claim 2 wherein native lysis is carried out by freeze thawing colonies.

- 4. (Original) The method of claim 2 or 3 wherein native lysis is carried out using native lysis buffer.
- 5. (Currently amended) The method of any one of claims 1 to 4 claim 1, wherein the target protein is fused to a protein or polypeptide tag.
- 6. (Currently amended) The method of any one of claims 1 to 5 claim 1, wherein soluble proteins in the filtrate are identified using antibodies and/or fusion tags.
- 7. (Original) The method of claim 5 or 6 wherein the fusion tag is His.
- 8. (Currently amended) The method of any one of claims 5 to 7 claim 5, wherein the tag acts as the substrate in an enzymatic detection method for detecting the target protein in step (c) of claim 1.
- 9. (Currently amended) The method of any one of claims 1 to 8 claim 1, wherein step (c) is a non-enzymatic detection method.

- 10. (Currently amended) The method of any one of claims 1 to 9 claim 1, wherein said filter has a pore size between 0.1 and 1.5 $\,\mu m$.
- 11. (Currently amended) The method of any one of claims 1 to 10 claim 1, wherein said colonies are colony is lifted from their its growth media on the filter used in step (b).
- 12. (Original) The method of claim 11, wherein said colonies are lifted prior to the lysis of step (a).
- 13. (Currently amended) The method of any one of claims 1 to 12 claim 1, wherein filtration step (b) includes the application of a force to the filter carrying the colonies.
- 14. (Currently amended) The method of any one of claims 1 to 13 claim 1, wherein proteins in the filtrate from filtration step

 (b) are captured on a solid support prior to detection step (c).
- 15. (Currently amended) The method of any one of claims 1 to 14 claim 1, wherein said protein is a membrane protein.

- 16. (Withdrawn) A method of identifying a cell colony expressing a soluble variant of a membrane protein, which method comprises:
- (a) subjecting one or more colonies of cells to conditions which are capable of causing lysis thereof;
- (b) filtering the lysate of step (a) through a filter having pores which allow only soluble proteins to pass through the filter, thereby generating a filtrate containing soluble membrane proteins.
- 17. (Withdrawn) A kit for use in the methods of any one of claims 1 to 15 comprising:
- (a) a filter having pore sizes which only allow soluble proteins to pass through the filter;
 - (b) said support; and optionally
 - (c) reagents for use in native lysis of the cell colonies.